

WHAT IS CLAIMED IS:

Sub B17  
1. A transmitter assembly including a pre-distortion type linearizer correcting to mutually cancel a distortion component caused in a transmission signal and a correction data

5 component, comprising:

first storage means for preliminarily storing said correction data.

2. A transmitter assembly as set forth in claim 1, wherein  
10 said first storage means manages correction data as table per transmission level.

Sub B17  
3. A transmitter assembly as set forth in claim 1, which further comprises:

15 second storage means having a plurality of table of said correction data per transmission frequency and environmental temperature; and

means for updating storage content of said first storage means with the corresponding table of said second storage means  
20 when at least one of the transmission frequency and the environmental temperature is varied.

4. A distortion compensation method for a transmitter including a pre-distortion type linearizer correcting to  
25 mutually cancel a distortion component caused in a transmission

5           inputting the read out value to said pre-distortion type  
linearizer.

5. A distortion compensation method as set forth in claim 4, wherein said first storage means manages the correction data in a form of table per transmission level.

6. A distortion compensation method as set forth in claim 4, wherein a storage content of said first storage means is updated with a corresponding table in said second storage means storing a plurality of tables storing said correction data per transmission frequency and environmental temperature when at least one of said transmission frequency and environmental temperature.

20 7. A transmitter assembly as set forth in claim 2, wherein an address corresponding to said transmission level and a correction data corresponding to said address are stored in said first storage means.

25 8. A transmitter assembly as set forth in claim 2, wherein

said transmission level is a sum of an alternating current voltage value corresponding to an instantaneous power of a transmission signal and a direct current voltage corresponding to a part of the power of transmission output signal.

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Sub B17 9. A transmitter assembly as set forth in claim 1, wherein said correction data is consisted of a predetermined amplitude value and a predetermined phase value of the transmission signal.

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10. A distortion compensation method as set forth in claim 5, wherein the address corresponding to the transmission level and the correction data corresponding to said address are stored in said first storage means.

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11. A distortion compensation method as set forth in claim 5, wherein said transmission level is a sum of an alternating current voltage value corresponding to an instantaneous power of a transmission signal and a direct current voltage corresponding to a part of the power of transmission output signal.

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Sub B17 12. A distortion compensation method as set forth in claim 4, wherein said correction data is consisted of a predetermined  
25 amplitude value and a predetermined phase value of the

transmission signal.

13. A transmitter assembly including a pre-distortion type  
linearizer correcting to mutually cancel a distortion  
5 component caused in a transmission signal and a correction data  
component comprising:

transmission signal generating means generating a base  
band signal of an I signal and a Q signal; and

transmission means modulating and amplifying said  
10 base band signal into an RF signal: and

said pre-distortion type linearizer being provided  
between an output of said transmission signal generating means  
and an input of said transmission means; and

directional coupling means dividing RF signal; and  
15 power detecting means detecting said RF signal and  
outputting a transmission level to address generating means;  
and

power calculating means calculating an instantaneous  
Power calculating of said base band signal to output to said  
20 address generating means; and

said address generating means detecting an address of  
data to be output by the first storage means from said  
transmission level and said instantaneous power of said base  
band signal; and

25 said first storage means for preliminarily storing said

14. A transmitter assembly as set forth in claim 13, wherein said first storage means manages correction data as table per transmission level.

second storage means having a plurality of table of said correction data per transmission frequency and environmental temperature; and

14. means for updating storage content of said first storage means with the corresponding table of said second storage means when at least one of the transmission frequency and the environmental temperature is varied.

16. A transmitter assembly as set forth in claim 14, wherein an address corresponding to said transmission level and a correction data corresponding to said address are stored in said first storage means.

17. A transmitter assembly as set forth in claim 14, wherein said transmission level is a sum of an alternating current voltage value corresponding to an instantaneous power of a transmission signal and a direct current voltage corresponding

to a part of the power of transmission output signal.

18. A transmitter assembly as set forth in claim 13, wherein said correction data is consisted of a predetermined amplitude value and a predetermined phase value of the transmission signal.

19. A distortion compensation method for a transmitter including a pre-distortion type linearizer correcting to mutually cancel a distortion component caused in a transmission signal and a correction data component, comprising steps of:

providing said pre-distortion type linearizer between an output of said transmission signal generating means and an input of said transmission means; and

dividing RF signal by directional coupling means; and detecting said RF signal and outputting a transmission level to address generating means by power detecting means; and

calculating an instantaneous power of said base band signal to output to said address generating means by power calculating means; and

determining an address of data to be output by the first storage means from said transmission level and said instantaneous power of said base band signal by said address generating means

inputting the read out value to said pre-distortion type  
5 linearizer.

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22. A distortion compensation method as set forth in claim  
20, wherein the address corresponding to the transmission level  
and the correction data corresponding to said address are  
stored in said first storage means.

23. A distortion compensation method as set forth in claim  
25 20, wherein said transmission level is a sum of an alternating

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24. A distortion compensation method as set forth in claim 19, wherein said correction data is consisted of a predetermined amplitude value and a predetermined phase value of the transmission signal.